

Hydrophobia 1 vol
Hydrophobia
Epilepsy
Tetanus
Rabies

Observations



on

Cataract.

by

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of

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Observations &c. &c.

From the importance of Vision, the Eye, perhaps, is the most interesting Organ of the Body. — It has been designated the 'mirror of the soul' — and the 'master piece of Nature'. — That delicacy of structure, however, which is so much the object of admiration, renders it peculiarly liable to disease. — Among the copious Catalogue of its morbid affections, we have selected the one, known by the term Cataract, as the subject of the ensuing observations. — This complaint was wholly misunderstood by the ancient Medical writers. — To Casperowius, Rauhalt and Borrelli we are indebted for the earliest description which approximates to a correct view of it. — But the celebrated Astruc, in his Treatise 'de Cataracta in lente Crystallina' has demonstrated satisfactorily, that the Crystalline Lens is generally the seat of the

disease, and, we may therefore ascribe to him with more justice, the credit of the real discovery of the nature and seat of Cataract.

We define the complaint to be an opacity of the Crystalline Lens, or its investing membrane, intercepting the rays of light in their transmission to the Optic Nerve.

The approach of Cataract is commonly announced by a numerous train of symptoms, but especially by pain in the part, and head ache. Cases however sometimes occur where the disease is suddenly found without any admonitory indications whatever. We are told of many other symptoms which attend the forming stage of the affection, such as, an apparant obliquity in the direction of objects, owing to an alteration in the refraction of the rays of Light &c. &c. But, a minute detail of the symptoms

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is not our design, and we therefore proceed to outline the
Remote Causes.

These are, Strokes on the part, or any accident which produces concussion of the globe of the eye, and occasions derangement beyond the capacity of restoration; - mechanical irritation from catarrhus substances entering the eye; - long and painful exercise of the Organ, and the excessive glare from brilliant Light. - It is also said sometimes to be the consequence of other diseases, namely, of scrophula, Gout, and Lues Venerea.

Its Proximate Cause,

Has been ascribed to an obstruction in the vessels of the Lens. - But obstruction seems rather to be the proximate effect, than the immediate cause of the disease.

It more probably consists in inflammatory action of the

Lens or its Capsule.

We know, that adhesions result from inflammation in other parts of the body, and hence, we presume, arise those adhesions which are observed to take place between the Capsule, Lens & Linc.

In objection to inflammation as the proximate cause, it may be urged, that, no Vessels have ever been detected in the Crystalline Lens. — But the Lens, surely, like every organized part must be nourished, and, how can this work be accomplished without the existence of Vessels? — The objection therefore, does not strike us as militating in the slightest degree against the validity of the theory.

We come now to treat of the Cure of the Complaint.

Little is to be expected from the use of internal remedies. — Many, we are apprised, have been tried at different times, but certainly, with very equivocal

surely. We know, indeed, of no one which is entitled to enter confidence. —

Mercury, by its power of exciting absorptions, promises the greatest advantage. — Stimulus in this may occasionally be of service by removing the obstruction, and clearing the opacity. — But even this Medicine, we suspect, can only do good in the incipient state of Cataract. —

After the complaint is completely formed, we should rely exclusively on the surgical Operation, and we shall, therefore, now describe it. —

Two ways of performing the Operation are at present practised, and each one is supported by indisputable authority. —

They are technically designated by the terms Couching and Extraction. —

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In the first operation, the lens is removed from its natural position in the axis of vision, and deposited at the bottom of the eye, which is done, by introducing a Needle through the sclerotic coat, about the fourth of an inch from the cornea behind the iris, so as to puncture the middle of the lens: — By then elevating the handle of the Instrument, the lens is pushed to the bottom of the eye, and lodged beneath the Vitreous Humour, —

In the second operation, or that of Extraction, the lens is entirely taken out thro' a section of the cornea; — But of this operation we shall speak hereafter more fully: —

Tho' each of these modes of operating is recommended, and continues to be resorted to by surgeons eminently distinguished by their skill and experience, yet on a candid examination of the arguments, by which they are respectively vindicated, we are inclined to adopt the one by extraction.

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We shall not mention all the considerations which have influenced our decision, but content ourselves with stating those only, which are the most conclusive.

1st. It is attended with less pain, as appears from the testimony of those on whom the operation has been performed in both ways.

2. It fulfils better the intention of the operation, which is the extirpation of the lens or capsule.

3. There are cases of the disease, that can only be embraced by this operation, as those called Membranous Cataract, in which the capsule is opaque.

4. It is a more certain operation. For there are not wanting instances where the disease has returned by the lens resuming its natural situation after the needle has been withdrawn. Where this happens of course, the operation is rendered abortive and must be repeated.

It has been urged against the removal of the lens by extraction, that it is often followed by opaque Cornea, and that there is danger of the escape of the vitious humour. But we conceive these objections to be of little weight, and are rather to be considered as

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resulting from the awkwardness of the surgeon, than as necessarily incident to the operation. — The injurious consequence to the Cornea may be avoided by the use of a sharp Knife, and the escape of the Vitreous Humour, can only occur from rude and improper pressure on the eye: — And even if this accident should take place, it would not be an insuperable impediment to the cure, since we have proofs of the reproduction of the humour in such cases. — However, we should always carefully guard against the loss of it.

It remains for us to describe the Operation.

Having ascertained, which may be done with tolerable certainty, by those indications which are familiar to every experienced Surgeon, that the case is of the nature to be remedied by the Operation, we may confidently undertake it. — The Patient should be placed on a low chair with the affected eye to the window, having had the ordinary Bandage previously applied. — His head being rested in a proper position, an assistant must raise the upper eye lid, taking care not to press hard on the Globe.

The Surgeon seated on a Chair rather higher than that of the Patient is to depress the lower lid with one hand, while with the other he makes the

section of the Cornea. This is to be done in the following manner.

His hand being joined on the Cheek of the patient, the Knife is introduced about one sixteenth of an inch from the sclerotic coat, and the point carried through the Cornea, till it comes out at the inner angle.

In cutting the Cornea, it occasionally happens, from a partial escape of the Aquæus Humour, that the Iris comes forward and entangles the point of the Knife. It may be made to recede by rubbing the Cornea with the end of the finger. After the section of the Cornea, the eye-lids are closed, and the patient is allowed a short interval of rest, when, the process is renewed by exposing the eye, and the Capsule is ruptured with a needle: cautiously, avoiding any injury of the Iris. On withdrawing the needle, the eye is again left for a few minutes at rest, to permit the pupil to dilate; The Operator then elevating the lid, introduces the scoop, with a gradual pressure on the globe. In applying pressure with a view of extracting the lens, the Surgeon will guard against dislodging the Vitreous humour; and regulate his pressure according to the Circumstances of the case. If a reasonable degree

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if pressure should not remove the lens, the hook is to be resorted to, and if neither answers the purpose, the resistance is to be suspected to proceed from adhesions between the Capsule and the posterior surface of the Iris. In which event, the adhesions are to be separated by the needle.

When we have grounds to presume the Capsule to be opaque it will be expedient to remove it before the lens, for it is most readily laid hold of while surrounding the lens, and the lens may afterwards be taken out by the hook.

After the Operation, the eye is closed, and a compress of soft linen is put over it, moistened with a weak Saturnine solution, and the whole secured by the usual bandage.

The Patient ought to be confined to a dark Room, and, restricted to a low abstemious diet.

It will perhaps be prudent to tie the hands of the Patient, to the Bedside to obviate his disturbing of the eye.

The dressing should be renewed every day, and the edges of the

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divided Cornea kept in apposition. —

If pain or fever supervene, they are to be treated as from other causes.
In about ten days after the operation, the eye may be examined,
and if the Patient finds any restoration of Vision, we may indulge
the hope of success. —

Painkinds are commonly discontinued in three or four weeks from the
period of Operating, if nothing particularly unfavorable has retarded
the progress of the cure. —

The End.

